Software Architecture

Lecture 4 Event Systems

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previously data flow and call-return styles

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data flow

batch sequential dataflow network (pipe & filter) acyclic, fan-out, pipeline, Unix closed loop control

call-return

main program/subroutines information hiding objects, naive client-server SOA

interacting processes

communicating peers asynchronous messages event systems implicit invocation publish-subscribe

SWE 727 - Software Architecture

data-oriented repository transactional databases

true client-server blackboard modern compiler

data-sharing

compound documents hypertext Fortran COMMON LW processes

hierarchical

tiers interpreter N-tiered client-server

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